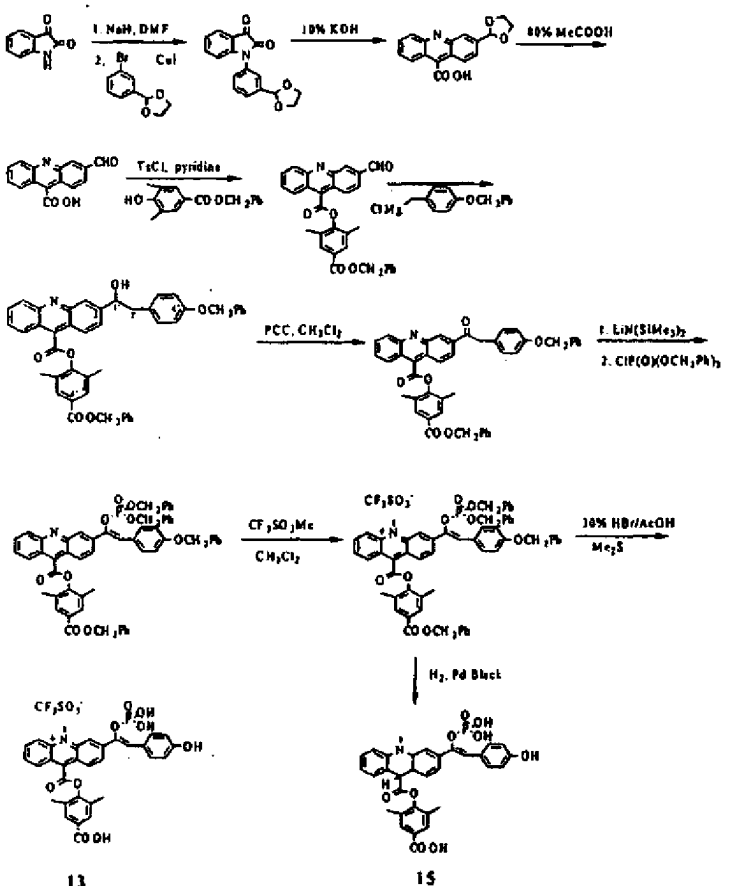
UNITED STATES PATENT AND TRADEMARK OFFICE

CERTIFICATE OF CORRECTION

PATENT NO. : 6,783,948 B1
APPLICATION NO. : 09/626566
DATED : August 31, 2004
INVENTOR(S) : Qingping Jiang et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Columns 47-50, after the paragraph following Example 11, delete formulas 13 and 15 and insert the following formulas 13 and 15:



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Signed and Sealed this
Third Day of July, 2012

David J. Kappos

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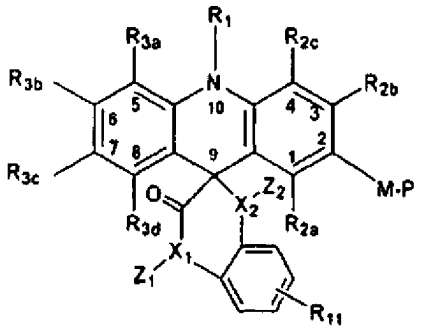
Director of the United States Patent and Trademark Office

Column 67-68, claim 18, delete "claim 18" and insert the following claim 18:

--18. A chemiluminescent substrate of a hydrolytic enzyme, said substrate having the structure



wherein

P is selected from the group consisting of PO_3H_2, PO_3K_2, $PO_3(NH_4)_2$, PO_3Ca, PO_3Mg, PO_3Na_2, a sugar moiety and C(=O)R group wherein R is an alkyl group having 1 to 6 carbon atoms;

M is oxygen;

R_1 is selected from the group consisting of methyl, sulfopropyl, sulfobutyl, sulfoalkyl, and carboxymethyl;

R_{2a}, R_{2b}, R_{2c}, R_{3a}, R_{3b}, R_{3c}, and R_{3d}, can be the same or different, selected from a group consisting of hydrogen, methyl, methoxy, halides, cyano (–CN);

A^- is a counter ion for the electroneutrality of the quaternary nitrogen of the acridinium compounds, said A^- not being present if said R_1 substituent contains a strongly ionizable group that can form an anion and pair with the quaternary ammonium cationic moiety; and

X_1 and X_2 are the same or different and are selected from the group consisting of O, N or S, such that,

when X_1 and X_2 are O or S, R_{11} is selected from the group consisting of hydrogen, -R, substituted or unsubstituted aryl, halides, nitro, sulfonate, sulfate, phosphonate, $–CO_2H$, –C(O)OR, cyano (–CN), –SCN, –OR, –SR, –SSR, –C(O)R, –C(O)NHR, ethylene glycol, or polyethyelene glycol, where R is as defined above; and

Z_1 and Z_2 are omitted; and

when at least one of X_1 and X_2 is N, Z_1 and Z_2 are toluenesulfonyl, and R_{11} is carboxypropyl.--